

## SEQUENCE LISTING

<110> Sanchez, Luis Enjuanes

<120> Nucleic Acid Sequence That Includes the RNA Encapsidation  
Signal of a Group 1 Coronavirus and its Applications

<130> 033644-003

<140> US 10/502,359

<141> 2004-07-23

<150> PCT/ES03/00038

<151> 2003-01-24

<150> ES P200200158

<151> 2002-01-24

<160> 26

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 550

<212> DNA

<213> Porcine transmissible gastroenteritis virus (TGEV)

<400> 1

```

gaaatatttg tctttctatg aaatcataga ggacaagcgt tgattatttc cattcagttt 60
ggcaatcact ccttggaacg ggggtgagcg aacggtgcag taggggtccg tccctatttc 120
gtaagtcgcc tagtagtagc gagtgcggtt ccgcccgtac aacggtgggt agaccgggtt 180
ccgtcctgtg atctccctcg ccggccgcca ggagaatgag ttccaaacaa ttcaagatcc 240
ttgttaatga ggactatcaa gtcaacgtgc ctagtcttcc tattcgtgac gtgttacagg 300
aaattaagta ctgctaccgt aatggatttg agggctatgt tttcgtacca gaatactgtc 360
gtgacctagt tgattgcgat cgtaaggatc actacgtcat tgggtgttctt ggtaacggag 420
taagtgatct taaacctgtt cttcttaccg aacctccgt catgttgcaa ggctttattg 480
ttagagctaa ctgcaatggc gttcttgagg actttgacct taaaattgct cgcactggca 540
gaggtgccat                                     550

```

<210> 2

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> GUS oligonucleotide

<400> 2

```

gaccacact ttgccgtaat gagtgaccgc a                                     31

```

<210> 3

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> GUS 297 oligonucleotide

<400> 3  
 gacccacact ttgccgtaat gag 23  
  
 <210> 4  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> leader oligonucleotide  
  
 <400> 4  
 agattttgtc ttcgacacc aactcg 26  
  
 <210> 5  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> oligonucleotide 336  
  
 <400> 5  
 cttgatgcac taacttctg 19  
  
 <210> 6  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> oligonucleotide 1.7  
  
 <400> 6  
 caggatcctg tagacaagtg tgtg 24  
  
 <210> 7  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> oligonucleotide 1.8  
  
 <400> 7  
 ggcatgcttg ctactagctt ggttggtgc 29  
  
 <210> 8  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> leader oligonucleotide  
  
 <400> 8  
 taacctgcac tcactacccc 20  
  
 <210> 9

<211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> leader oligonucleotide

<400> 9  
 tcagcatgag ctaaccacg 19

<210> 10  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> leader oligonucleotide

<400> 10  
 ggctattatg gcccgttggt ttgg 24

<210> 11  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> leader oligonucleotide

<400> 11  
 tagattgaga gcgtgacctt g 21

<210> 12  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> leader oligonucleotide

<400> 12  
 gcgcatgcaa tcacacgc 18

<210> 13  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> leader oligonucleotide

<400> 13  
 tctggtttct gctaaactcc 20

<210> 14  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> region A1 oligonucleotide  
  
 <400> 14  
 gggtcgacga aatatttgtc tttctatgaa atc 33  
  
 <210> 15  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> region A1 oligonucleotide  
  
 <400> 15  
 ccgtcgacat ggcacctctg acagtgcgag c 31  
  
 <210> 16  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> region A2 oligonucleotide  
  
 <400> 16  
 gggtcgaccg ttcttgagga ctttgacctt aaaattg 37  
  
 <210> 17  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> region A2 oligonucleotide  
  
 <400> 17  
 ccgtcgacca tcaccaggct taatatacc c 31  
  
 <210> 18  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> region A3 oligonucleotide  
  
 <400> 18  
 gggtcgactt tctggcaaag ttaagggtgt c 31  
  
 <210> 19  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> region A3 oligonucleotide  
  
 <400> 19

ccgtcgacac gattgtctgg aaccacaaat gttggc 36

<210> 20  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> region A4 oligonucleotide

<400> 20  
 gggtcgacgc ttttacgatt gtaaaactaca agcc 34

<210> 21  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> region A4 oligonucleotide

<400> 21  
 ccgtcgactt caaatgatga accaagtttt gc 32

<210> 22  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> region B oligonucleotide

<400> 22  
 gggtcgacca aataccaact ggcacacaag atcc 34

<210> 23  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> region B oligonucleotide

<400> 23  
 ccgtcgacaa ttcttcagtg caagcaccta ctgtc 35

<210> 24  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> GUS 297 oligonucleotide

<400> 24  
 gaccacactt tgccgtaatg ag 22

<210> 25  
 <211> 18

<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> 19949 oligonucleotide

<400> 25  
cttggtggat ctgttgcc 18

<210> 26  
<211> 10  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> GUS oligonucleotide

<400> 26  
acgtcgacga 10